



>4304443inh  
>4304443H1  
Consensus

AGTATACATT CTTTATTAAT CATTGGCTT CCAACCCAT TTAGCTGCC  
GTATACATT CTTTATTAAT CATTGGCTT CCAACCCAT TTAGCTGCC  
AGTATACATT CTTTATTAAT CATTGGCTT CCAACCCAT TTAGCTGCC

>4304443inh  
>4304443H1  
>3040232H1  
Consensus

ATTGAAATGC AAAAGTCTGT TCCAAATAAA GCCTTCCAAT TGAAGAATGA  
ATTGAAATGC AAAAGTCTGT TCCAAATAAA GCCTTCCAAT TGAAGAATGA  
GAAATGC AAAAGTCTGT TCCAAATAAA GCCTTCCAAT TGAAGAATGA  
ATTGAAATGC AAAAGTCTGT TCCAAATAAA GCCTTCCAAT TGAAGAATGA

>4304443inh  
>4304443H1  
>3040232H1  
Consensus

ACAAACATTG AGAGCAGATG AGATACTCCC ATCAGAATCC AAACAAAAGG  
ACAAACATTG AGAGCAGATG AGATACTCCC ATCAGAATCC AAACAAAAGG  
ACAAACATTG AGAGCAGATG AGATACTCCC ATCAGAATCC AAACAAAAGG  
ACAAACATTG AGAGCAGATG AGATACTCCC ATCAGAATCC AAACAAAAGG

>4304443inh  
>4304443H1  
>3040232H1  
Consensus

ACTATGAAGA AAGTTCTTGG GATTCTGAGA GTCTCTGTGA GACTGTTCA  
ACTATGAAGA AAGTTCTTGG GATTCTGAGA GTCTCTGTGA GACTGTTCA  
ACTATGAAGA AAGTTCTTGG GATTCTGAGA GTCTCTGTGA GACTGTTCA  
ACTATGAAGA AAGTTCTTGG GATTCTGAGA GTCTCTGTGA GACTGTTCA

>4304443inh  
>4304443H1  
>3040232H1  
Consensus

CAGAAGGATG TGTGTTTACC CAAGGCTGCG CATAAAAAG AAATAGATAAA  
CAGAAGGATG TGTGTTTACC CAAGGCTGCG CATAAAAAG AAATAGATAAA  
CAGAAGGATG TGTGTTTACC CAAGGCTGCG CATAAAAAG AAATAGATAAA  
CAGAAGGATG TGTGTTTACC CAAGGCTGCG CATAAAAAG AAATAGATAAA

>4304443inh  
>4304443H1  
>3040232H1  
Consensus

AATAAATGGA AAATTAGAAG GGTCTCCTGT TAAAGATGGT CTTCTGAAGG  
AATAA  
AATAAATGGA AAATTAGAAG GGTCTCCTGT TAAAGATGGT CTTCTGAAGG  
AATAAATGGA AAATTAGAAG GGTCTCCTGT TAAAGATGGT CTTCTGAAGG

>4304443inh  
>3040232H1  
Consensus

CTAACTGCGG AATGAAAGTT TCTATTCAA CTAAAGCCTT AGAATTGATG  
CTAACTGCGG AATGAAAGTT TCTATTCAA C  
CTAACTGCGG AATGAAAGTT TCTATTCAA CTAAAGCCTT AGAATTGATG

>4304443inh  
Consensus

GACATGCAAAT CTTCAAAGC AGAGCCTCCC GAGAAGCCAT CTGCCTTCGA  
GACATGCAAAT CTTCAAAGC AGAGCCTCCC GAGAAGCCAT CTGCCTTCGA

>4304443inh  
Consensus

GCCTGCCATT GAAATGCAAAT AGTCTGTTCC AAATAAAGCC TTGGAATTGA  
GCCTGCCATT GAAATGCAAAT AGTCTGTTCC AAATAAAGCC TTGGAATTGA

>4304443inh  
Consensus

AGAATGAACA AACATTGAGA GCAGATGAGA TACTCCCATC AGAATCCAAA  
AGAATGAACA AACATTGAGA GCAGATGAGA TACTCCCATC AGAATCCAAA

FIG.1A



TECH CENTER 1600

AUG 07 2003

RECEIVED

>4304443inh  
Consensus

CAAAAGGACT ATGAAGAAAG TTCTTGGGAT TCTGAGAGTC TCTGAGAGAC  
CAAAAGGACT ATGAAGAAAG TTCTTGGGAT TCTGAGAGTC TCTGAGAGAC

>4304443inh  
Consensus

TGTTTCACAG AAGGATGTGT GTTTACCCAA GGCTACACAT CAAAAAGAAA  
TGTTTCACAG AAGGATGTGT GTTTACCCAA GGCTACACAT CAAAAAGAAA

>4304443inh  
Consensus

TAGATAAAAT AAATGGAAAA TTAGAAGAGT CTCCTGATAA TGATGGTTTT  
TAGATAAAAT AAATGGAAAA TTAGAAGAGT CTCCTGATAA TGATGGTTTT

>4304443inh  
Consensus

CTGAAGGCTC CCTGCAGAAT GAAAGTTCT ATTCCAACTA AAGCCTTAGA  
CTGAAGGCTC CCTGCAGAAT GAAAGTTCT ATTCCAACTA AAGCCTTAGA

>4304443inh  
Consensus

ATTGATGGAC ATGCAAACCT TCAAAGCAGA GCCTCCGAG AAGCCATCTG  
ATTGATGGAC ATGCAAACCT TCAAAGCAGA GCCTCCGAG AAGCCATCTG

>4304443inh  
Consensus

CCTTCGAGCC TGCCATTGAA ATGAAAAGT CTGTTCCAAA TAAAGCCTTG  
CCTTCGAGCC TGCCATTGAA ATGAAAAGT CTGTTCCAAA TAAAGCCTTG

>4304443inh  
<3790941H1  
>3424294H1  
Consensus

GAATTGAAGA ATGAACAAAC ATTGAGAGCA GATCAGATGT TCCCTTCAGA  
TCCCTTCAGA  
CAGA  
GAATTGAAGA ATGAACAAAC ATTGAGAGCA GATCAGATGT TCCCTTCAGA

>4304443inh  
<3790941H1  
>3424294H1  
Consensus

ATCAAAACAA AAGAACGTTG AAGAAAATTCT TTGGGATTCT GAGAGTCTCC  
ATCAAAACNA AAGAACGTTG :AGAAAATTCT TTGGGATTCT GAGAGTCTCC  
ATCAAAACAA AAGAACGTTG AAGAAAATTCT TTGGGATTCT GAGAGTCTCC  
ATCAAAACAA AAGAACGTTG AAGAAAATTCT TTGGGATTCT GAGAGTCTCC

>4304443inh  
<3790941H1  
>3424294H1  
Consensus

GTGAGACTGT TTCACAGAAG GATGTGTGTG TACCAAGGC TACACATCAA  
GTGAGACTGT TTCACAG:AG GATGTGTGTG TACCAAGGC TACACATCAA  
GTGAGACTGT TTCACAGAAG GATGTGTGTG TACCAAGGC TACACATCAA  
GTGAGACTGT TTCACAGAAG GATGTGTGTG TACCAAGGC TACACATCAA

>4304443inh  
<3790941H1  
>3424294H1  
Consensus

AAAGAAATGG ATAAAATAAG TGGAAAATTA GAAGATTCAA CTAGCCTATC  
AAAGAAATGG ATAAAATAAG TGGAAAATTA GAAGATTCAA CTAGCCTATC  
AAAGAAATGG ATAAAATAAG TGGAAAATTA GAAGATTCAA CTAGCCTATC  
AAAGAAATGG ATAAAATAAG TGGAAAATTA GAAGATTCAA CTAGCCTATC

>4304443inh  
<3790941H1  
>3424294H1  
Consensus

AAAAATCTTG GATACAATTCTT ATTCTTGTGA AAGAGCAAGG GAACTTCAAA  
AAAAATCTTG GATACAGTTCTT ATTCTTGTGA AAGAGCAAGG GAACTTCAAA  
AAAAATCTTG GATACAGTTCTT ATTCTTGTGA AAGAGCAAGG GAACTTCAAA  
AAAAATCTTG GATACAGTTCTT ATTCTTGTGA AAGAGCAAGG GAACTTCAAA

FIG.1B



RECEIVED  
AUG 07 2002  
TECH CENTER 1600/2000

COPY OF PAPERS  
ORIGINALLY FILED

3/6

>4304443inh  
<3790941H1  
>3424294H1  
Consensus

AAGATCACTG TGAAACAATGT ACAGGAAAAA TGGAACAAAT GAAAAGAAG  
AAGATCACTG TGAAACAACGT ACAGGAAAAA TGGAACAAAT GAAAAGAAG  
AAGATCACTG TGAAACAACGT ACAGGAAAAA TGGAACAAAT GANA  
AAGATCACTG TGAAACAACGT ACAGGAAAAA TGGAACAAAT GAAAAGAAG

>4304443inh  
<3790941H1  
Consensus

TTTTGTGTAC TGAAAAAGAA ACTGTAGAA GCAAAAGAAA TAAAATCACA  
TTTTGTGTAC TGAAAAAGAA ACTGTAGAA GCAAAA  
TTTTGTGTAC TGAAAAAGAA ACTGTAGAA GCAAAAGAAA TAAAATCACA

>4304443inh  
>2741038H1  
Consensus

GTTAGAGAAC CAAAAAGTTA AATGGGAACA AGAGCTCTGC AGTGTGAGGT  
GNGCTCTGC NGTGTGAGGN  
GTTAGAGAAC CAAAAAGTTA AATGGGAACA AGAGCTCTGC AGTGTGAGGT

>4304443inh  
>2741030H1  
Consensus

TTCTCACACT CATGAAAATG AAAATTATCT CTTACATGAA AATTGCATGT  
TTCTCACACT CATGANAATN AAAATNATCT CTTACATGAN AATTGCATGT  
TTCTCACACT CATGAAAATG AAAATTATCT CTTACATGAA AATTGCATGT

>4304443inh  
>2741038H1  
Consensus

TGAAAAAGGA AATTGCCATG CTAAAACCTGG AAATAGCCAC ACTGAAACAC  
TGAAAAAGGA AATTGCCATG CTAAAACCTGG AAATAGCCAC ACTGAAACAC  
TGAAAAAGGA AATTGCCATG CTAAAACCTGG AAATAGCCAC ACTGAAACAC

>4304443inh  
>2741038H1  
Consensus

CAATACCAGG AAAAGGAAAA TAAATACCTT GAGGACATTA AGATTTAAA  
CAATACCAGG AAAAGGAAAA TAAATACCTT GAGGACATTA AGATTTAAA  
CAATACCAGG AAAAGGAAAA TAAATACCTT GAGGACATTA AGATTTAAA

>4304443inh  
>2741038H1  
Consensus

AGAAAAGAAT GCTGAACCTTC AGATGACCCT AAAACTGAAA GAGGAATCAT  
AGANAAGAAT GCTGAACCTTC AGATGACCCT AAAACTGAAA GAGGAATCAT  
AGAAAAGAAT GCTGAACCTTC AGATGACCCT AAAACTGAAA GAGGAATCAT

>4304443inh  
>2741038H1  
Consensus

TAACTAAAAG GGCATCTCAA TATAGTGGC AGCTTAAAGT TCTGATAGCT  
TAACTAAAAG GGCATCTCAA TATAGTGGC AGCTT  
TAACTAAAAG GGCATCTCAA TATAGTGGC AGCTTAAAGT TCTGATAGCT

>4304443inh  
Consensus

GAGAACACAA TGCTCACTTC TAAATTGAAG GAAAAACAAG ACAAAAGAAAAT  
GAGAACACAA TGCTCACTTC TAAATTGAAG GAAAAACAAG ACAAAAGAAAAT

>4304443inh  
Consensus

ACTAGAGGCA GAAATTGAAT CACACCCTCC TAGACTGGCT TCTGCTGTAC  
ACTAGAGGCA GAAATTGAAT CACACCCTCC TAGACTGGCT TCTGCTGTAC

>4304443inh  
>4302934H1  
Consensus

AAGACCATGA TCAAATTGTG ACATCAAGAA AAAGTCAAGA ACCTGCTTTC  
TTCAAGAA AAAGTCAAGA ACCTGCTTTC  
AAGACCATGA TCAAATTGTG ACWTCAAGAA AAAGTCAAGA ACCTGCTTTC

FIG. 1C

RECEIVED

AUG 07 2002

TECH CENTER 1600/290



P.A. Billing-Medel, et al. 09/489,079  
Reagents and Methods Useful for Detecting Diseases of  
the Breast 6451.US.P1

4 of 6

COPY OF PAPERS  
ORIGINALLY FILED

4/6

>4304443inh  
>4302934H1  
Consensus

CACATTGCAG GAGATGCTTG TTTGCAAAGA AAAATGAATG TTGATGTGAG  
CACATTGCAG GAGATGCTTG TNTGCAAAGA AAAATGAATG TTGATGTGAG  
CACATTGCAG GAGATGCTTG TTTGCAAAGA AAAATGAATG TTGATGTGAG

>4304443inh  
>4302934H1  
Consensus

TAGTACGATA TATAACAATG AGGTGCTCCA TCAACCAC TTCTGAAGCTC  
TAGTACGATA TATAACAATG AGGTGCTCCA TCAACCAC TTCTGAAGCTC  
TAGTACGATA TATAACAATG AGGTGCTCCA TCAACCAC TTCTGAAGCTC

>4304443inh  
>4302934H1  
Consensus

AAAGGAAATC CAAAAGCCTA AAAATTAAATC TCAATTATGC AGGAGATGCT  
AAAGGAAATC CAAAAGCCTA AAAATTAAATC TCAATTATGC CGGAGATGCT  
AAAGGAAATC CAAAAGCCTA AAAATTAAATC TCAATTATGC MGGAGATGCT

>4304443inh  
>4302934H1  
Consensus

CTAAGAGAAA ATACATTGGT TTCAGAACAT GCACAAAGAG ACCAACGTGA  
CTAAGAGAAA ATACATTGGT TTCAGAACAT GCACAAAGAG ACCAACGTGA  
CTAAGAGAAA ATACATTGGT TTCAGAACAT GCACAAAGAG ACCAACGTGA

>4304443inh  
>4302934H1  
Consensus

AACACAGTGT CAAATGAAGG AAGCTGAACA CATGTATCAA AACGAACAAG  
AACACAGTGT CAAATGAAGG AAGCTGAACA CATGTATC  
AACACAGTGT CAAATGAAGG AAGCTGAACA CATGTATCAA AACGAACAAG

>4304443inh  
Consensus

ATAATGTGAA CAAACACACT GAACAGCAGG AGTCTCTAGA TCAGAAATTA  
ATAATGTGAA CAAACACACT GAACAGCAGG AGTCTCTAGA TCAGAAATTA

>4304443inh  
Consensus

TTTCAACTAC AAAGCAAAAA TATGTGGCTT CAACAGCAAT TAGTTCATGC  
TTTCAACTAC AAAGCAAAAA TATGTGGCTT CAACAGCAAT TAGTTCATGC

>4304443inh  
Consensus

ACATAAGAAA GCTGACAACA AAAGCAAGAT AACAAATTGAT ATTCAATTTC  
ACATAAGAAA GCTGACAACA AAAGCAAGAT AACAAATTGAT ATTCAATTTC

>4304443inh  
Consensus

TTGAGAGGAA AATGCAACAT CATCTCCTAA AAGAGAAAAA TGAGGGAGATA  
TTGAGAGGAA AATGCAACAT CATCTCCTAA AAGAGAAAAA TGAGGGAGATA

>4304443inh  
Consensus

TTTAATTACA ATAACCATT AAAAACC GT ATATATCAA ATGAAAAAGA  
TTTAATTACA ATAACCATT AAAAACC GT ATATATCAA ATGAAAAAGA

>4304443inh  
Consensus

GAAAGCAGAA ACAGAAA ACT CATGAGAGAC AAGCAGTAAG AAACCTCTTT  
GAAAGCAGAA ACAGAAA ACT CATGAGAGAC AAGCAGTAAG AAACCTCTTT

>4304443inh  
Consensus

TGGAGAAACA ACAGACCAGA TCTTTACTCA CAACTCATGC TAGGAGGCCA  
TGGAGAAACA ACAGACCAGA TCTTTACTCA CAACTCATGC TAGGAGGCCA

FIG. 1D



TECH CENTER 1600/2900

AUG 07 2002

RECEIVED

|                                       |  |
|---------------------------------------|--|
| >4304443inh<br>Consensus              | GTCCTAGCAT CACCTTATGT TGAAAATCTT ACCAATAGTC TGTGTCAACA<br>GTCCTAGCAT CACCTTATGT TGAAAATCTT ACCAATAGTC TGTGTCAACA   |
| >4304443inh<br>Consensus              | GAATACTTAT TTTAGAAGAA AAATTCACTGA TTTCTTCCTG AAGCCTACAG<br>GAATACTTAT TTTAGAAGAA AAATTCACTGA TTTCTTCCTG AAGCCTACAG   |
| >4304443inh<br>Consensus              | ACATAAAATA ACAGTGTGAA GAATTACTTG TTCACGAATC TCGCTCTGCA<br>ACATAAAATA ACAGTGTGAA GAATTACTTG TTCACGAATC TCGCTCTGCA   |
| >4304443inh<br>>158545H1<br>Consensus | CTCCAGCCTA GGCGCCTAGT GAAACCTGT GTCAAAAAGA AAAAAACAAA<br>CCTA GGCGCCTAGT GAAACCTGT GTCAAAAAGA AAAAAACAAA<br>CTCCAGCCTA GGCGCCTAGT GAAACCTGT GTCAAAAAGA AAAAAACAAA          |
| >4304443inh<br>>158545H1<br>Consensus | AACAAACTTC CAAGACCTCG AGTGGTTTT GGAGACCCCTG TATCACTTC<br>ANCAAACCTTC CAAGACCTCG AGTGGTTTT GGAGACCCCTG TATCACTTC<br>AACAAACTTC CAAGACCTCG AGTGGTTTT GGAGACCCCTG TATCACTTC   |
| >4304443inh<br>>158545H1<br>Consensus | AATAATGTGT TAAACAAGCA TCTTCATCTC ATTAAATAGA AATGTTGAAA<br>AATAATGTGT TAAACAAGCA TCTTCATCTC ATTAAATAGA AATGTTGAAA<br>AATAATGTGT TAAACAAGCA TCTTCATCTC ATTAAATAGA AATGTTGAAA |
| >4304443inh<br>>158545H1<br>Consensus | AATTGCTTT GGAATAATTG ACTTATGGAT ATTTCATCAA ATTTACAGTT<br>AATTGCTTT GGAATAATTG ACTTATGGAT ATTTCATCAA ATTTACAGTT<br>AATTGCTTT GGAATAATTG ACTTATGGAT ATTTCATCAA ATTTACAGTT    |
| >4304443inh<br>>158545H1<br>Consensus | GGCTATGCTT TCTTATTGTG CATACTATGA AATGTTTTTC TTCAAAAAGT<br>GGCTATGCTT TCTTATTGTG CATACTATGA AATGTTTTNN TTCAATT<br>GGCTATGCTT TCTTATTGTG CATACTATGA AATGTTTTTC TTCAWWAAGT    |
| >4304443inh<br>Consensus              | GTTTATAAGT GGTAAGTTA AGAATGGGGT TGACAGCATT ATCTTTGTG<br>GTTTATAAGT GGTAAGTTA AGAATGGGGT TGACAGCATT ATCTTTGTG   |
| >4304443inh<br>Consensus              | GTTTATTGAT TAAACATTAA CTAATTGTGC ATA<br>GTTTATTGAT TAAACATTAA CTAATTGTGC ATA   |

FIG. 1E

COPY OF PAPERS  
ORIGINALLY FILED

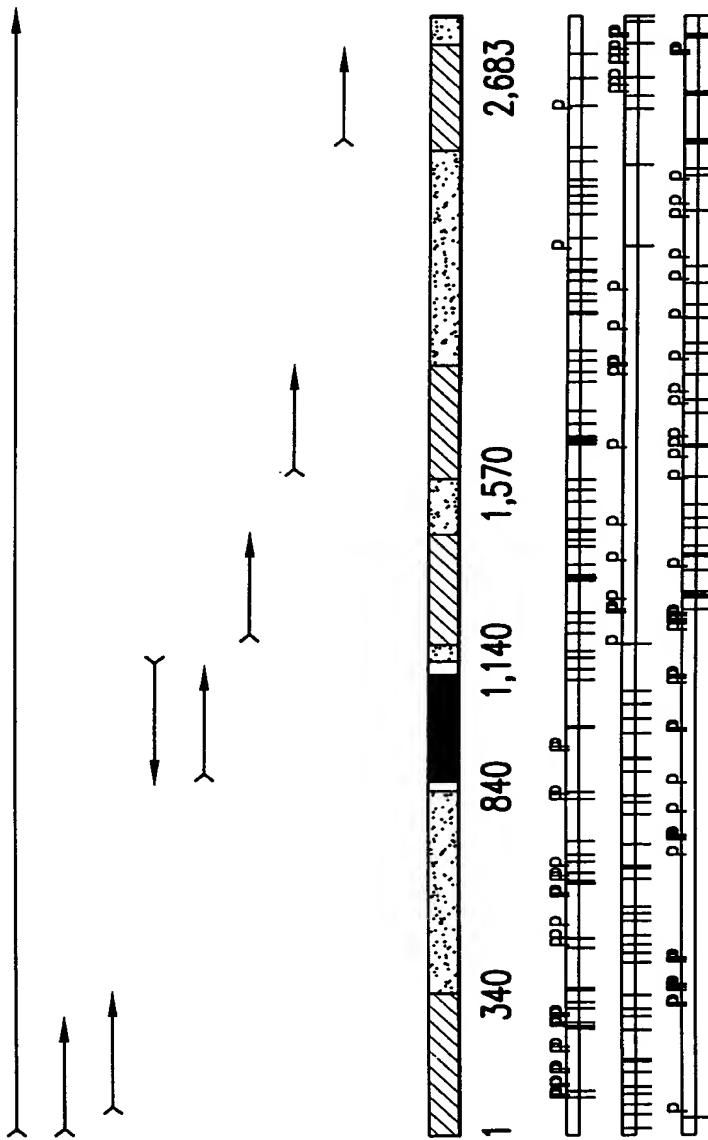


FIG. 2

RECEIVED  
AUG 07 2002  
TECH CENTER 1600/2900

